

ABSTRACT OF THE DISCLOSURE

A mesh type wireless communication network includes a plurality of nodes, each node having at least one dynamically directionally controllable communications link, and a network controller for dynamically changing the direction of the controllable communications links of the nodes to enable transmission of signals between the nodes. A hub type wireless communication network includes a hub node having at least one dynamically directionally controllable communications link, a plurality of remote nodes, and a network controller for dynamically controlling the direction of the communications link to enable transmission of signals between the hub node and the remote nodes. A method for transmitting communications signals in a mesh network includes the steps of providing a plurality of nodes for receiving communications signals, each having at least one dynamically directionally controllable communications link, and dynamically changing the direction of the controllable communications links of the nodes to enable transmission of the communications signals between the nodes. A method for transmitting communications signals in a hub network includes the steps of providing a hub of node for receiving communications signals, the hub node having at least one dynamically directionally controllable communications link, providing a plurality of remote nodes for exchanging the communications signals with the hub node, and dynamically changing the direction of the controllable communications links of the hub node to enable transmission of the communications signals between the hub node and the remote nodes.

09620776-072100